

Bluegiga BLED112-V1 USB-BLE dongle

Brand: Smartjac Industries Inc
Product Code: SMAGA1676949A



Short Description

USB dongle supporting Bluetooth Smart (eg Low Energy). Bluetooth Smart Ready for Linux, Android & Windows devices.

Description

The BLED112 Bluetooth Smart Dongle integrates all Bluetooth Smart features. The USB dongle has a virtual COM port that enables seamless host application development using a simple application programming interface. The BLED112 can be used for Bluetooth Smart development. With two BLED112 dongles you can quickly prototype new Bluetooth Smart application profiles by utilizing Bluegiga's Profile Toolkit™ and also automate in module software functions with Bluegiga's BGScript™.

- 1: Integrates all Bluetooth Smart features
 - 2: For Windows and Android
 - 3: No need of any additional hardware to connect your machine to a Bluetooth Smart peripheral
 - 4: Compliance: Bluetooth, CE, FCC
- Net Weight: 0.1 KILOGRAM

Key Benefits

Key Benefits

Fully integrated Bluetooth Smart solution

Integrated Bluetooth Radio, micro controller and software stack

Fast time-to-market

Low development risks

Application hosting capabilities

All application code can be executed on the BLE112

No need for external micro controller

Lower cost and smaller size

Bluetooth, CE, FCC, IC, South Korea, and Japan qualified

Proven interoperability

Minimal qualification costs

Flash based

Firmware is field upgradeable

Application data can be stored on the flash

Settings can be stored on the flash

Good radio performance

Long range and robust connections

Software programmable TX power

Specifications

Radio features:

Bluetooth 4.0 low energy radio

Transmit power: +0 dBm

Receiver sensitivity: -93 dBm

Bluetooth features:

Bluetooth Smart (low energy) support

L2CAP, ATT, GATT, GAP and Security Manager

Bluetooth Smart profiles

Client and master mode

Up to eight connections in master mode

100kbps+ throughput

Hardware features:

USB host interface

Temperature range: -40° C to +85°C

MCU features:

8051 microcontroller

8kB RAM

128kB Flash

Software features:

Embedded Bluegiga Bluetooth Smart Stack

BGAPI™ host protocol

Bluegiga BGScript™ programming for standalone applications

Bluegiga Profile Toolkit™ for developing Bluetooth Smart profiles

Qualifications:

Bluetooth

CE

FCC

IC

Japan

South Korea